

D. $f(x)$ is linear and

$$\begin{aligned} f(-4) &= 7 \\ f(2) &= 10 \end{aligned}$$

$$\begin{array}{c} x \quad y \\ \begin{pmatrix} -4, 7 \\ 2, 10 \end{pmatrix} \end{array} \quad \frac{10 - 7}{2 - (-4)} = \frac{3}{6} = \frac{1}{2}$$

$$\begin{aligned} y &= mx + b \\ y &= \frac{1}{2}x + b \end{aligned}$$